PATENT -

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:

:

Shi

:

Serial No.

10/769,218

Group Art Unit: Not yet assigned

Filed:

January 30, 2004

Examiner: Not Yet Assigned

For:

CASPACE-9:BIR-DOMAIN OF XIAP COMPLEXES AND METHODS

OF USE

INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents Mail Stop DD P.O. Box 1450 Alexandria, VA 22313-1450

Sir:

In accordance with the provisions of 37 C.F.R. 1.56, 1.97 and 1.98, the attention of the Patent and Trademark Office is hereby directed to the documents listed on the attached form PTO-1449. Copies are provided. It is respectfully requested that the documents be expressly considered and that the documents be made of record therein and appear among the "References Cited" on any patent to issue therefrom.

AUTHORIZATION

No fee is required. The Commissioner is hereby authorized to charge any additional fees which may be required for this submission, or credit any overpayment to deposit account no. 50-0436.

Respectfully submitted,

PEPPER HAMILTON LLP

Paymond a Miller

Raymond A. Miller

Registration No. 42,981

Pepper Hamilton LLP One Mellon Bank Center 50th Floor 500 Grant Street Pittsburgh, PA 15219 Telephone: (412) 454-5813

>

Facsimile: (412) 281-0717

Date: August 6, 2004



CERTIFICATE OF MAILING UNDER 37 C.F.R. § 1.10

APPLICANT:

Shi

TITLE:

CASPACE-9:BIR-DOMAIN OF XIAP COMPLEXES AND

METHODS OF USE

SERIAL NO.

10/769,218

ATTORNEY REF:

112911.00151

DATE OF DEPOSIT:

August 6, 2004

I HEREBY CERTIFY THAT THIS INFORMATION DISCLOSURE STATEMENT WITH COPIES OF REFERENCES CITED THEREIN IS BEING DEPOSITED WITH THE UNITED STATES POSTAL SERVICE VIA FIRST CLASS MAIL UNDER 37 CFR 1.10 ON THE DATE INDICATED ABOVE AND IS ADDRESSED TO COMMISSIONER FOR PATENTS, MAIL STOP AMENDMENT, P.O. BOX 1450, ALEXANDRIA, VA 22313-1450.

Jennifer Martinez

(Typed or printed name of person mailing paper or fee)

Documents Enclosed:

- 1. Information Disclosure Statement with cited references;
- 2. Certificate of Mailing;
- 3. Postcard

	*
1 "	SON TOWN
PATENT & T	RAIR
	Substitu

RAIRE						Complete i	f Known		
Substitute for form 1449/PTO				Application Number		10/769,218			
INFORMATION DISCLOSURE			Filing Date		January 30, 2004				
		TEMENT BY APPI			First Named	Inventor	Shi		
	,	•			Group Art Un		Not yet assi	gned	
	(use	as many sheets as ne	cessary)		Examiner Name Attorney Docket Number		Not yet assigned 112911.00151		
Sheet	1	of 2							
Miles Pinte Att M	anesine.	CONTRACTOR STREET	(对人的)数		Diff Will take Walley	ativista a de pena sensa a			
Examiner's	Cite	U.S. Patent Docur	nent	Name of Paten	tee or Applicant of	Date of		ns, Lines, Where	e e
Initials	No.	Number Kind Code (if known)		Cited Document		Publication of Cited Document MM-DD-YYYY	Relevant Passages or Relevant Figures Appear		
	AA	6,187,557	B1	Rothe et al.		02-13-2001		Γ	
	AB	6,110,691	B1	Wang et al.		8/29/2000			
	AC	09/965,967	A	Princeton Un	iversity	1			
	AD	20020132786	A2	Alnemri`		9/19/2002	, ,,,,	<u> </u>	
	AE	20020152780	A2	Alnemri		10-31-2002			
	AF	20040054148	A2	Alnemri		3-18-2004			
	L	[20040054140			NT DOCUMEN				W. 36
Examiner's Initials	Cite No.	Foreign Patent Document Office Number Kind Code (if known)		Name of Patentee or Applicant of Cited Document		Date of Publication of Cited Document MM-DD-YYYY	e of Pages, Columns, Lines, Ition of Where Relevant Passages or Relevant Figures Appear		T
	ВА	WO 99/15657		Curagen Corpo	oration	04-01-1999			
- W	BB	WO02/16418	A1	Thomas Jeffers	son University	28-02-2002			
	BC	WO02/26775	A2	The Trustees University	of Princeton	04-04-2002			
	BD	WO02/30959	A2	Abbot Labora	atories	04-18-2002		-	
	BE	WO02/96930	A2	The Trustees University	of Princeton	12-05-2002			
	BF	WO03/018014	A2	The Governm United States		03-06-2003			
							-		
Examiner's	Cite	OTHER A	RT (Incl	uding Author;	Title: Date: Pent	inent Pages, Etc.)	e of the item (boo	k, T	
Initials	No.	magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or county where published.							i
	CA	DEVERAUX, ET AL., IAP family proteins-suppressors of apoptosis; Genes Dev. 13: 239-252, 1999.							
	CB	KASOF, ET AL.; Livn, a novel inhibitor of apoptosis protein family member;. J Biol. Chem. 276: 3238-3246, 2001.							

CC	VUCIC DOMAGOJ, ET AL., ML-IAP, a novel inhibitor of apoptosis that is preferentially expressed in human melanomas; Curr. Biol. 10:1359-1366, 2000.					
CD	ASHAB, YAQOUB, et al. Two splicing variants of a new inhibitor of apoptosis gene with different biological properties and tissue distribution; Federation of European Biochemical Societies Letters 495:56-60, 2001.					
CE	DU, CHUNYING, ET AL.; Smac, a Mitochondrial protein that promotes cytochrome c-dependent Caspase activation by					
	eliminating IAP inhibition, Cell 102:33-42, 2000.					
CF	VERHAGEN, ET AL., Identification of DIABLO, a mammalian protein that promotes Apoptosis by binding to and antagonizing IAP proteins; Cell 102:43-53, July 7, 2000.					
CG	HAY, B.A.; Understanding IAP function and regulation: a view from Drosphila; Cell Death Differ. 7:1045-1056, 2000 (Abstract).					
СН	BOXRUD, PAUL., D., ET AL.; Streptokinase binds to human plasim with high affinity, perturbs the plasmin active site, and induces expression of a substrate recogonition exosite for plasminogen; J. Biol. Chem. 275: 14579-14589, 2000.					
CI	OWENIUS, RIKARD, ET AL.; Properties of spin and fluorescent labels at a receptor-ligand interface, Biophys. J. 77:2237-2250, 1999.					
CJ	HIRATSUKA, TOSHIAKI, ATP-induced opposite changes in the local environments around CYS ⁶⁹⁷ (SH2) and Cys ⁷⁰⁷ (SH1) of the myosin motor domain revealed by the prodan fluorescence, J. Biol. Chem. 274:29156-29163, 1999.					
CK	CHAN, W.C., White, P.D., Fmoc Solid Phase Peptide Synthesis: A Practical Approach; Oxford University Press: Oxford 2000 (Table of Contents).					
CL	FREIDINGER, ROGER, M., ET AL.; Synthesis of 9-flourenylmethyloxycarbonyl-protected n-alkyl amino acidsby reductin of oxazolidinones, J. Org. Chem. 48:77-81, 1983.					
CM	SRINIVASA, et al.; A conserved XIAP-interaction motif in Caspase-9 and Smac/DIABLO regulates Caspase activity and apoptosis; Nature,; Vol 410 pp. 112-116; March 2001					
CN	TERWILLIGER, ET AL.; Correlated Phasing of Multiple Isomorphous Replacement Data; Acta Cryst. (1996) D52, 749-757					
CO	BAILEY, ET AL.; The CCP4 Suite: Programs for protein crystallography; Acta Cryst. (1994) D50, 760-763					
СР	SUN, ET AL.; NMR Structure and Mutagenesis of the Third Bir Domain of the Inhibitor of Apoptosis Protein XIAP; J of Biol. Chem; Vol. 275, Issue of October 27, pp. 33777-33781, 2000					
CQ	RIPKA, et al.; PEPTIDOMIMETIC DESIGN; Chem. Biol. 1998, 2:441-452, 1998					
CR	NICHOLLS, et al.; Protein folding and association: Insights from the interfacial and thermodynamic properties of hydrocarbons; Proteins: Structures, Functions and Genetics 11:281-296 (1991)					
CS	NAVAZA, J.; AmoRE: an automated package for molecular replacement; Acta Cryst. (1994) A50, 157-163					
CT	MORGAN, ET AL.; Ch. 26, Section VI-Topics in Chemistry and Drug Design, "Approaches to the Discovery of Non-Peptide Receptors and Peptidases"; Academic Press, Inc., 1989					
CU	McCARTHY, ET AL.; Apoptosis induced by Drosophila Reaper and Grim in a Human System; J. Biol. Chem.; Vol. 273, No. 37, September 11, 1998; pp. 24009-24015					
CV	LIU, ET AL.; Structural basis for the binding of SMAC/DIABLO to the XIAP BIR3 Domain; Nature Vol.408 21/28 December 2000, pp. 1004-1008					
CW	LISI, ET AL.; Diverse domains of THREAD/DIAP1 are required to inhibit apoptosis induced by REAPER and HID in drosophila; Genetics 154:669-678; February 2000					
CX	KRAULIS, J.; Molscript: a program to produce both detailed and schematic plots of protein structures; J. Appl. Cryst. (1991) 24, 946-950					
CY	JONES, ET AL.; Improved methods for building protein models in electron density maps and the location of errors in these models; Acta. Crysta.(1991) A47,110-119					
CZ	HRUBY, ET AL.; Synthesis of oligopeptide and peptidomimetic libraries; J. Chem. Biol. 1997; 1:114-119; http://biomednet.com/elecref/1367583199199114					
CCA	HRUBY, ET AL.; Conformational and topographical considerations in designing agonist Peptidomimetics from peptide leads; Current Med. Chemistry, 2000, 7, 945-970					
CCB	GOYAL, ET AL.; Induction of Apoptosis by Drosophila Reaper, hid and grim through inhibition of IAP function; EMBO Journal, Vol. 19, No. 4, pp. 589-587, 2000					
CCC	DU, ET AL.; SMAC, a mitochondrial protein that promotes cytochrome c-Dependent Caspase activation by eliminating IAP inhibition; Cell, Vol. 102, 33-42, July 7, 2000					
CCD	CHEN, PO., ET AL.; Grim, a novel cell death gene in Drosphila; Genes & Development 10:1773-1782 (1996)					
CCE	AMBROSINI, GRAZIA, ET AL.; Induction of Apoptosis and Inhibition of Cell Proliferation by surviving gene targeting; J of Biological Chemistry; Vol. 273, No. 18, May 1, 1988; pp. 11177-11182					
CCF	VUCIC, DOMAGOJ, ET AL.; Inhibition of Reaper-induced apoptosis by interaction with inhibitor of apoptosis proteins (IAP); Proc. Natl. Acad. Sci, USA, Vol. 94, pp. 10188, September 1997					
	CHAI, JIJIE, ET AL.; Structural and Biochemical basis of apoptotic activation by Smac/DIABLO; Nature; Vol. 406, pp. 855862, August 2000					
CCG	133502, August 2000					

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.